GenCore version 4.5 Copyright (c) 1993 - 1998 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 19, 1999, 23:20:33; Search time 29.19 Seconds (without alignments) 6455.963 Million cell updates/sec

Perfect score: US-08-913-430-1 1782

Sequence: 1 atgaaaaaatgccactata.....ttgataatcctgatgcctaa 1782

Scoring table: IDENTITY\_NUC

Searched: 195662 seqs, 52875861 residues

Database :

Issued Patents NA:\*

1: /cgn2 6/ptodata/1/ina/5A\_COMB.seq:\*

2: /cgn2 6/ptodata/1/ina/5B\_COMB.seq:\*

3: /cgn2 6/ptodata/1/ina/5C\_COMB.seq:\*

4: /cgn2 6/ptodata/1/ina/D\_COMB.seq:\*

5: /cgn2\_6/ptodata/1/ina/DcTUS9\_COMB.seq:\*

6: /cgn2\_6/ptodata/1/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result

Query

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28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	=	10	9	œ	~1	6	5	.4	w	~	-	No.
61.6	61.6	61.8	61.8	62.4	62.4	62.4	62.4	63	63	ఓ	ಟ	ವ	ವ	64.4	64.6	66	66	66	68.2	69.2	71	72.6	74.4	75	77.4	77.4	77.4	Score
3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3,5	3.5	3.5	3.5	3.5	3.5	3.6	3.6	3.7	3.7	3.7	3.8	3.9	4.0	4.1	4.2	4.2	4.3	4.3	4.3	Match
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	4, Appli	20, Appl	14, Appl	l, Appli	e 1, Appli	l, Appli	18, Appl	16, Appl	16, Appl	6, Appli	5, Appli	14, Appl	36, Appl	1, Appli	l, Appli	l, Appli	32, Appl

## ALIGNMENTS

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TELECOMMUNICATION INFORMATION: TELEPHONE: 904-375-8100 TELEFAX: 904-372-5800	REFERENCE/DOCKET NUMBER: UF114.C3	REGISTRATION NUMBER: 31,794	ATTORNEY/AGENT INFORMATION:	FILING DATE: 19-FEB-1991	APPLICATION NUMBER: US 07/657,584	PRIOR APPLICATION DATA:	APPLICATION NUMBER: US 07/827, 685	PRIOR APPLICATION DATA:	AFFLICATION NUMBER: NO SZ/140IO FILING DATE: 12-FEB-1992	PRIOR APPLICATION DATA:	CLASSIFICATION: 435	Ņ	APPLICATION NUMBER: US/07/991,867B	LICATION DATA:		co	COMPUTER: IBM PC compatible	MEDIUM TYPE: Floppy disk	COMPUTER READABLE FORM:	ō	Η	STATE: FL	CITY: Gainesville	STREET: 2421 N.W. 41st Street, Suite A-1	ADDRESSEE: David R. Saliwanchik	CORRESPONDENCE ADDRESS:	NVENTION: No. 54		Hall, F	APPLICANT: Moyer, Richard W.	GENERAL INFORMATION:	Patent No. 5476781	77-391-00/B-0/C	RESULT 1

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Best Local Similarity 49.8%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1128 TTTTGTTATAAGATATATCTAAATATGTTATATTTTTTAATTTTGTTATAAAATTTAAAT 1069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1188 ATGATTCACAATTTAAAAATTCTATAGAATGTGGTAGTATAATATTACTTATATTGCTAT 1129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                         1008 TATTATTATCATAATATTATTATGCAATTCTTCTAAATTAACTAATTTTTTTAATATAT 949
                                                                                                                                                                                                                                                                                                                                                                                                       1068 TAATAATATTTAAATTTGAAATATATAAACTTTTAATATTTTCTGGAATATTATTAAAA 1009
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LENGTH: 1511 base pairs
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                                                                                                                                                                                                                                                                           447 atttttaaaaaaattgatttttatagtataatttgt----
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773
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                                                                                              agctatttatgcaacttcgcttgcatcaattattgcatttgttgcagcaggttgtggaca 620
                                                                                                                                                                                             acttgatttgaaagggaacaaaatgaaaaaaatgcttagaaaaaaattcttgtattcatc 560
                                gacagaatca--ggttcaacttctgattctaaaccacaagccgagacgctaaaacataaa 678
                                                                                                                                                                                                                                     GAATTAATAGTTGGTCCTATGTTTTCTGGCAAAACAACAGAATTGATGCGAAAAATTAAT 714
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                                                                                                                                                                                                                                                                                                 NFORMATION FOR SEQ ID NO: 8:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/657,584
FILING DATE: 19-FEB-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Hall, Richard L.
APPLICANT: Gruidl, Michael E.
TITLE OF INVENTION: No. 5721352el Entomopoxvirus Expression System
                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
NAME: Saliwanchik, David R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES:
                                          FEATURE:
                                                                                                    FEATURE:
                                                                                                                                                ORIGINAL SOURCE:
                                                                                                                                                                    MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                             TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 30-JAN-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US 07/827, 658
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 19-AUG-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: PatentIn Release #1.0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STATE: Florida
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                    NAME/KEY:
                                                                                NAME/KEY:
                                                                                                                                                                                                               STRANDEDNESS: double
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE: David R. Saliwanchik
STREET: 2421 N.W. 41st Street, Suite A-1
LOCATION:
                                                          LOCATION:
                                                                                                                          ORGANISM:
                                                                                                                                                                                           TOPOLOGY: unknown
                                                                                                                                                                                                                             TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                     TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE/DOCKET NUMBER: UF114.C2
                                                                                                                                                                                                                                                                                                                                                                                                            REGISTRATION NUMBER:
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                    CDS
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                                                          complement (18..218)
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complement (234..782)
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Best Local Similarity 49.8%;
Matches 341; Conservative
Sequence 8, Application US/08544332
Patent No. 5935777
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GENERAL INFORMATION:

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FEATURE:
NAME/KEY:
LOCATION:
US-08-544-332-8
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TELEPHONE: 904-375-8100
TELEFAX: 904-372-5800
INFORMATION FOR SEQ ID NO: 8:
                                                                                                                                                                                        MOLECULE TYPE: I
ORIGINAL SOURCE:
ORGANISM: Amsa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: PatentIn Release $1.0, Version $1.25 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/544,332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
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APPLICATION NUMBER: US 07/991,867
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: No. 5935777el Entomopoxvirus Expression System
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                                                                                                                                                                        FEATURE:
                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
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                                                                                              NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 19-FEB-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 30-JAN-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: WO 92/14818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 19-AUG-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US 08/107,755
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                                                                                                                                                                                                                                                  TOPOLOGY:
                                                                                                                                                                                                                                                                      STRANDEDNESS:
                                                                                                                                                                                                                                                                                      TYPE: nucleic acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US 07/657,584
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                                                                          LOCATION:
                                                                                                                                  LOCATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Bencen, Gerard H.
                                                                                                                                                                                                                                                                                                          ENGTH:
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Query Match 4.3%; Best Local Similarity 49.8%;

Score 77.4; DB 4; Length 1511; Pred. No. 9.5e-06;

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                                                                                                                     Sequence 2, Application US/07867106 Patent No. 5389526
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                                                                                                     GENERAL INFORMATION:
APPLICANT: Slade, Martin B
APPLICANT: Chang, Andy C M
APPLICANT: Williams, Keith L
TITLE OF INVENTION: Improved Plasmid Vectors for Cellular
TITLE OF INVENTION: Slime Moulds of the Genus Dictyosteliu
NUMBER OF SEQUENCES: 19
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                 Dictyostelium
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	290 ttacattttttataacaatttttaaaaattactctttaatttatatgtattttttattt 349 
	230 attitticattattictactaaaatattatitgaatitgcattitccataatctaaaatt 289 
	170 tatttttttaatogaaatocaaocaggoataaatotttgtoagtatttatoaagtoggt 229 
0;	4.2%; Score 75; DB 1; Length 5852; Sest Local Similarity 50.4%; Pred. No. 2.7e-05; Gaps 4atches 183; Conservative 0; Mismatches 180; Indels 0; Gaps
	NAME/KEY: CDS LOCATION: 23785038 -07-867-106-2
	NAME/KEY: CDS LOCATION: 23785038 FEATURE:
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	TELEPHONE: 215–568–3100
	FILING DATE: 02-NOV-1989 ATTORNEY/AGENT INFORMATION:
	APPLICATION NUMBER: AU PJ 7187 APPLICATION NUMBER: PCT/AU90/00530
	> €
	JICATION DATA:
	OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: PatentIn Release #1.0, Version #1.25
	COMPITTER IRM DC compatible
	19103 19103
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	NUMERISEE: MOOGCOCK MARHDULI NULLZ MACKLEWICZ & NO. J3093ZOLLS STREET: One Liberty Place 46th Floor CTTY. Dillocalabia
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                                                                                      Query Match 4.2%;
Best Local Similarity 49.1%;
                                                                        Matches 259;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
NAME: Mitchard, Leonard C
REGISTRATION NUMBER: 29.009
REFERENCE/DOCKET NUMBER: 47-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ZIP: 22201-4714
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
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                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: Nucleotide sequence encoding carbamoyl TITLE OF INVENTION: phosphate synthetase II
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1917 AAGTTATTTTAAATATGCAAAAACTATAAAAAACTAATGTAGTTTAACCAACTTTTTTC 1976
                                                                                                                                                                                                                                                                                                                                                       TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           530
269
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                 37 tatataaaataattaaaattacattttcttcatttgcgccagaattttttaagaattagta 96
                                                                                                                                                                                                                     STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 06-Jul-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: PatentIn Release #1.24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STATE: Virginia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET:
                                                                                                                                                                                                   TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/08/446,855A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE: Nixon & Vanderhye PC
                                                                                                                                                                                                                                                           LENGTH: 8920 base pairs
                                                                                                                                                                                                                                                                                                                     TELEFAX:
                                                                                                                                                                                                                                                                                                                                     TELEPHONE:
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Arlington
                                                                                                                                                                                                                                        nucleic acid
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                                                                                                                                                                                                                                                                                                                    703-816-4100
                                                                        Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Flores, Maria V
                                                                                                                                                                                                                                                                                                                                         703-816-4000
                                                                                                                                                                                 genomic
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                                                                 0;
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                                                                                        Score 74.4; DB 3; Pred. No. 3.6e-05;
                                                                        Mismatches 261;
                                                                                                       Length 8920;
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B Ş 324 TATATATATATATATATATATATGTTTGTGTGTTCATTTGTTTATAAAATTACTTGAAAT 383 97 cattaaaaagtagaacaaaagttattaatgtaaacattagcgcaatccttaagaaaaaat

Ş 384 ATAAAACTTATTAATATATTTCCAATTAATATGAATACAATTATTAATATTTTGATGTGT 157 taaaagttttatctattttttttaatcgaaatccaaccaggcataaatctttgtcagtat 216 443

Ş 217 ttatcaagtcggtattttttcattatttctactaaaatattatttgaatt---tgcattt 273

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S 564 ATTCATTTATTTATTTTTTTTTTTAGTTTATAAAATAGTAATTCTACTAATTTAAAAAAA 623 334 tagtattttttttttttagtctaaattataaaattatcttgaattttatttgaatttt 393

Ş 394 tataatttagtactaaaaaatacaaatattttttcctattctaagaaaaattcattttt 453

454 aaaaaaaattgatttttatagtataatttgtttgtataattgaattaacttgatttgaaa 513 

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맑 gggaacaaaatgaaaaaaatgcttagaaaaaaattcttgtattcatca 561

US-09-056-075-1 Sequence 1, Applic Patent No. 5955368 GENERAL INFORMATION: COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS ATTORNEY/AGENT INFORMATION:
NAME: Seay, Nicholas J.
REGISTRATION NUMBER: 27386 TITLE OF INVENTION: APPLICANT: Bradshaw, Mar APPLICANT: Rood, Julian APPLICANT: CURRENT APPLICATION DATA: CORRESPONDENCE ADDRESS: NUMBER OF SEQUENCES: COUNTRY: US ZIP: 53701-2113 STATE: WI CITY: Madison SOFTWARE: PatentIn Release #1.0, STREET: REFERENCE/DOCKET NUMBER: CLASSIFICATION: FILING DATE: APPLICATION NUMBER: ADDRESSEE: Quarles & Brady Application US/09056075 1 South Pinckney Street Bradshaw, Marite Johnson, Eric A. Expression System for Clostridium Species US/09/056, 075 960296.95238 Version #1.30

TELECOMMUNICATION INFORMATION:

TELEPHONE: 608-251-5000

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Best Local Similarity 46.7%;
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1894
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                                                                                    1834 GTTGCTCTTATAACTTCTCTTTCACTTAAATGTTGTCTAAACATACTATTAAGTTCTAAA 1893
                                                                                                                                                                    1774 GTTTCATTCTTATACTTATATTGCTTATTTTTATCTAAATAACATCTTTCAGCACTTCTA 1833
                                                                                                                                                                                                                                                          1714 GAAATTATTATTGTCATATATTTTTGTTCTTCTTCTGTAATTTCTAATAACTCTATAAGA 1773
                                                                                                                                                                                                                                                                                                                                            1654 AATTGCTCTTGATAATTTTTTTTACCTCTAATATTTTCTCTTCTCTTATATTCCTTTTTA 1713
                                                                                                                                                                                                                                                                                                                                                                                                                                1594
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1418 AAGTTTGAAAAAAATTTTTTTATATTATATAATCTTTGAAGAAAAGAATATAAAAAATGA 1477
                        544 aaattettgtatteateagetatttatge 572
                                                                                                              484 tttgtataattgaattaacttgatttgaaagggaacaaaatgaaaaaaatgcttagaaaa 543
                                                                                                                                                                                                            424 ttttcctattctaagaaaaattcattttttaaaaaaaattgatttttatagtataatttg 483
                                                                                                                                                                                                                                                                                364 taaaattatcttgaattttatttgaatttttataatttagtactaaaaaatacaaaatatt 423
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OTHER INFORMATION: /note= "RP4 origin of DNA transfer (oriT) from OTHER INFORMATION: plasmid RP4"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: misc_feature LOCATION: 3770..4013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRANDEDNESS: double
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4 aaaaaaatgccactataccagaggaaagagcagtatataaaataattaaaattacatttt 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ENGTH:
                                                                                                                                                                                                                                                                                                                                                                gaaatccaaccaggcataaatctttgtcagtatttatcaagtcggtattttttcattatt 243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cttcatttgcgccagaatttttaagaattagtacattaaaaagtagaacaaaagttatta 123
ACATCATTTAATGCCTTCTCAATGTCTTC 1922
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 4.0%;
Best Local Similarity 50.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches 228; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: ME NUMBER OF SEQUENCES: 3 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: FASEL, NICOLAS JOSEPH
                                                                                                                                                                                                                                                                                                                                                                                       108 agaacaaaagttattaatgtaaacattagcgcaatccttaagaaaaaattaaaagtttta 167
                                                                                      445
                                                                                                                                                                                                                                                                                                                                                                                                                                                       209 ATGATAAGAAATTCTAAAAAAAAATTCAGATAATTTTTGGATTGGAAACAACAACCAA 268
  505 CATCAACCCCTTTAATCAAACAATAACATTTATTATTTATTTATTTATATATATATCAAT
                                    348 tttttagtctaaattataaaattatcttgaattttatttgaatttttataatttagtact 407
                                                                                                                                 288 ttttacatttttttataacaatttttaaaaattactctttaatttatagtatttttttat 347
                                                                                                                                                                             389 ACACTTTTAACACACT----CTATTATCTTACAAAGGTTTAAAATTTTTAATTTTTTAT 444
                                                                                                                                                                                                                        228 gtattttttcattatttctactaaaatattatttgaatttgcattttccataatctaaaa 287
                                                                                                                                                                                                                                                                       329 AAAAAGGTATTTAAAGAAATTTTTTAAAATATTATTATATATCTTTAATTGTGCAAAAC
                                                                                                                                                                                                                                                                                              168 tctattttttttaatogaaatccaaccaggcataaatctttgtcagtatttatcaagtcg 227
                                                                                                                                                                                                                                                                                                                                                                48 attaaaattacattttcttcatttgcgccagaatttttaagaatttagtacattaaaaagt 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: Midwest Micro 486-50 OPERATING SYSTEM: DOS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 26-MAY-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY: UNITED STATES OF AMERICA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDIUM TYPE: 3.5" FLOPPY DISK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE:
                                                                                      Application US/08451405A
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US-07-715-751B-2
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                                                                              Query Match 3.9%; Score 69.2; DB 1; Best Local Similarity 48.2%; Pred. No. 0.00024; Matches 266; Conservative 0; Mismatches 273;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 2, Application US/07715751B Patent No. 5391725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                       NAME: MISROCK, S. LESLIE
REGISTRATION NUMBER: 18,872
REFERENCE/DOCKET NUMBER: 3288
TELECOMMUNICATION HYGENATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 859-9741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: CORUZZI, GLORIA M
APPLICANT: EDMARDS, JANIGE W
APPLICANT: WALKER
APPLICANT: WALKER
APPLICANT: WALKER
TITLE OF INVENTION: NOVEL ORGAN-SPECIFIC PLANT PROMOTER
TITLE OF INVENTION: SEQUENCES
TOTALE OF SEQUENCES:
CORRESPONDENCE ADDRESS:
ANDRESSED: DEVALUE S. EDWANDS
                                                                                                                                                                                                         TOPOLOGY: linear MOLECULE TYPE: DNA
                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                        TELEFAX: (214, TELEX: 66141 PENNIE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 467 ttttatagtataatttgtttgtataattgaatt 499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           565 TAGAAATAATATTTTCCTAATAGTAGTAATAATAATTTCTTTTTAATAAAAATACCT 624
625 TTTTCTACATTATTATTTTTTTTTTTTTTTT 657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/07/715,751B FILING DATE: 19910613 CLASSIFICATION: 435
                                                                                                                                                                                                                                                  STRANDEDNESS: single
                                                                                                                                                                                                                                                                       TYPE: NUCLEIC ACID
                                                                                                                                                                                                                                                                                         LENGTH: 1939 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 10036
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY: U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STATE: N.Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CITY: NEW YORK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: PENNIE & EDMONDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1155 AVENUE OF THE AMERICAS
                                                                                                                                                                                                         DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                           3288-017-999
                                                                                                                       Length 1939;
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SOFTWARE: WORDPERFECT 6.1	SOF	
OPERATING SYSTEM: DOS	E 40	
TYPE: 3.5" FLOPPY	MED	
COMPUTER READARLE FORM:	COMPU	👡
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OTAK: DITTANIBOH	STR	
THE WEBB LAW FIRM	ADDI	٠.
S	CORRE:	<b></b> .
R OF SEQUENCES: 3	NUMBE	
TITLE OF INVENTION: METHOD FOR EXPRESSION VECTOR AND		
CANT: REYMOND, CHRISTOPHE DOMINIQUE	APPLIC	
CANT: FASEL, NICOLAS JOSEI	APPLI	<b>-</b>
NERAL INFORMATION:	GENERAL	
sequence 2, Application Us/U84314UJA Patent No. 5736358	Sequence z Patent No.	
	-08-451-4	Su-
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408 aaaaaatacaaatattttttcctattcctaagaaaaattcattttttaaaaaaaa		Q
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TTAACTTTAAATACTAATTCATATAATAATAAAAACTAACTATAAGAATACTAACAAT	1112 1	рь
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175 tttttaatcgaaatccaaccaggcataaatctttgtcagtatttatcaagtcg 227		Qγ
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                                                                                                                                                              Sequence 32, Application US/07991867B Patent No. 5476781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 3.8%;
Best Local Similarity 48.4%;
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                                                                                                                                           GENERAL INFORMATION:
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                                        APPLICANT: Moyer, Richard W.
APPLICANT: Hall, Richard L.
APPLICANT: Gruidl, Michael E.
TITLE OF INVENTION: No. 5476781el Entomopoxvirus Expression System
NUMBER OF SEQUENCES: 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
                    CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                          517
                                                                                                                                                                                                                                                                                                                                                                                                        457
                                                                                                                                                                                                                                                                                                                                                                                                                                                216 CTTATCATATACCGTCACAAATCTATTTTTAGGTTCACTATGTTTAATATAATATTAAAT 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  397 aatttagtactaaaaaatacaaatattttttcctattctaagaaaaattcattttttaaa 456
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              337 tatttttttatttttagtctaaattataaaattatcttgaattttatttgaattttat 396
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  217 ttatcaagtoggtattttttcattatttctactaaaatattatttgaatttgcattttcc 276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              446 AAATAAAAAATTAAAATTTAAACCTTTGTAAGATAATAGAGTGTGTTAAAAGTGTGT 387
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                157 taaaagttttatctattttttttaatcgaaatccaaccaggcataaatctttgtcagtat 216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          566 TAATTGATATATAAAATAAATAAATAATAATGTTATTTGTTTGATTAAAGGGGGTTGA 507
                                                                                                                                                                                                                                                                                                                                                                156 ACAAATAAAAACTCCTTCAAATAGAAATAT-TTTATTCTAATTTTTTATTTTTAAAAAAA 98
                                                                                                                                                                                                                                                                                    97
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  37 tatataaaataattaaaattacattttcttcatttgcgccagaatttttaagaattagta 96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: NUCLEIC ACID
STRANDEDNESS: SINGLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER:
ADDRESSEE: David R. Saliwanchik
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH:
                                                                                                                                                                                                                                                                                                       aaaaattgatttttatagtataatttgtttgtataattgaattaacttgatttgaaaggg 516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cattaaaaagtagaacaaaagttattaatgtaaacattagcgcaatccttaagaaaaaat 156
                                                                                                                                                                                                                                                                                  TAAAAATAAAAATAAAAAAAAAAGGAAAAAAAAAACATATACTAATCAAATATT 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       731
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 68.2; DB 2; Length 731; Pred. No. 0.00033;
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US-07-991-867B-32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 3.7%;
Best Local Similarity 51.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
APPLICATION NUMBER: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION:
TELEPHONE: 904-375-8100
TELEFAX: 904-372-5800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                 212 agtatttatcaagtcggtattttttcattatttctactaaaatattatttgaatttgcat 271
217 TAATAATATTTAAATTTGAAATATATAAACTTTTAATATTTTCTGGAATATTATTAAAA 159
                                             331 ttatagtatttttttatttttagtctaaattataaaattatcttgaattttatttgaat 390
                                                                                             277 TTTTGTTATAAGATATATCTAAATATGTTATATTTTTAATTTTGTTATAAAATTTAAAT 218
                                                                                                                                                                                            337 ATGATTCACAATTTAAAAATTCTATAGAATGTGGTAGTATAATATTACTTATATTGCTAT 278
                                                                                                                                                                                                                                                                                       397 ATATTATTAATTTTTTAAATTTACTAAATTATTAATAAAATTATAGTCATTTATATTAC
                                                                                                                                                                                                                                                                                                                                                                                      272 tttccataatctaaaattttacattttt-tataacaatttttaaaaattactctttaat 330
                                                                                                                                                                                                                                                                                                                                    152 aaaattaaaagttttatctattttttttaatcgaaatccaaccaggcataaatctttgtc 211
                                                                                                                                                                                                                                                                                                                                                                                                                               92 tagtacattaaaaagtagaacaaaagttattaatgtaaacattagcgcaatccttaagaa 151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CITY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: UF114.C3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 30-JAN-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STATE: FL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 12-FEB-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 12-DEC-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Saliwanchik, David R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: WO 92/14818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/07/991,867B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US 07/657,584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      205;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gainesville
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                660 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2421 N.W. 41st Street, Suite A-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PatentIn Release #1.0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     double
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 66; DB 1; Length 660; Pred. No. 0.00076;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
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US-08-107-755A-32/c

Sequence 32, Application US/08107755A Patent No. 5721352

GENERAL INFORMATION:

APPLICANT:

Moyer, Richard W. Hall, Richard L.

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447 attttttaaaaaaaattgatttttatagtataatttgttt 486

TAATATTAATAACATTATCTCTGTTTATTATTATTTTTTT 58

391 ttttataatttagtactaaaaaatacaaatatt----ttttcctattctaagaaaaattc 446

157 TATTATTATCATAATATTATTATGCAATTCTTCTAAATTAACTAATTTTTTTAATATAT 98

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                                       Matches 205; Conservative
                                                      Best Local Similarity
                                                                   Query Match
92 tagtacattaaaaagtagaacaaaagttattaatgtaaacattagcgcaatccttaagaa 151
                                                    3.7%;
51.2%;
                                        0;
                                                    Score 66; DB 2;
Pred. No. 0.00076;
                                        Mismatches 190;
                                                                 Length 660
                                        Indels
                                        5,
                                        Gaps
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US-08-107-755A-32 NFORMATION FOR SEQ ID NO: MOLECULE TYPE: SEQUENCE CHARACTERISTICS: LENGTH: 660 base pairs PRIOR APPLICATION DATA: CURRENT APPLICATION DATA: CORRESPONDENCE ADDRESS:
ADDRESSEE: David R. Saliwanchik
STREET: 2421 N.W. 41st Street, Suite A-1 APPLICANT: Hall, Richard L. APPLICANT: Gruidl, Michael E. TITLE OF INVENTION: No. 5721352el Entomopoxvirus Expression System FILING DATE: 19-FEB-1991 ATTORNEY/AGENT INFORMATION: PRIOR APPLICATION DATA: COMPUTER READABLE FORM: TELECOMMUNICATION INFORMATION: NUMBER OF SEQUENCES: COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, APPLICATION NUMBER: US/08/107,755A FILING DATE: 19-AUG-1993 REGISTRATION NUMBER: 31,794
REFERENCE/DOCKET NUMBER: UF114.C2 FILING DATE: 30-JAN-1992 CLASSIFICATION: STATE: Florida TOPOLOGY: unknown STRANDEDNESS: double TELEFAX: TELEPHONE: (904) 375-8100 NAME: Saliwanchik, David R. APPLICATION NUMBER: APPLICATION NUMBER: US 07/827,658 MEDIUM TYPE: Floppy disk COUNTRY: U.S.A. 32606 nucleic acid Gainesville (904) 372-5800 DNA (genomic) 435 US 07/657,584 32: Version #1 . 25

Ş Q 23 14:57 us-08-913-430-1 mi

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밁 Ş В Q 밁 Ş Ş 밁 Ş Q 밁 밁 447 atttttaaaaaaaattgatttttatagtataatttgttt 486 277 TTTTGTTATAAGATATATCTAAATATGTTATATTTTTAATTTTGTTATAAAATTTAAAT 218 212 agtatttatcaagtcggtattttttcattatttctactaaaatattatttgaatttgcat 271 157 TATTATTATCATAATATATTATATGCAATTCTTCTAAATTAACTAATTTTTTTAATATAT 98 391 ttttataatttagtactaaaaaatacaaatatt----ttttcctattctaagaaaaattc 446 217 TAATAATATTTAAATTTGAAATATATAAACTTTTAATATTTTCTGGAATATTATTTAAAA 158 331 ttatagtatttttttatttttagtctaaattataaaattatcttgaattttatttgaat 390 272 tttccataatctaaaattttacatttttt-tataacaatttttaaaaaattactctttaat 330 337 ATGATTCACAATTTAAAAATTCTATAGAATGTGGTAGTATAATATTACTTATATTGCTAT 278 397 ATATTATTAATTTTTTAAATTTACTAAATTATTAATAAAATTATAGTCATTTATATTAC 338 152 aaaattaaaagttttatctattttttttaatcgaaatccaaccaggcataaatctttgtc 211 97 TAATATTAATAACATTATCTCTGTTTATTATTATTTTTT 58 398

US-08-544-332-32/c Sequence 32, Application US/08544332 Patent No. 5935777 GENERAL INFORMATION: TITLE OF INVENTION: No. 5935777el Entomopoxvirus Expression System NUMBER OF SEQUENCES: 77 PRIOR APPLICATION DATA: CURRENT APPLICATION DATA:
APPLICATION NUMBER: US COMPUTER READABLE FORM: APPLICANT: Moyer, Richard W. APPLICANT: Hall, Richard L. PRIOR APPLICATION DATA: PRIOR APPLICATION DATA: PRIOR APPLICATION DATA: CORRESPONDENCE ADDRESS: APPLICANT: Gruidl, Michael E APPLICATION NUMBER: US 07/991,867 FILING DATE: 07-DEC-1992 ZIP: STREET: APPLICATION NUMBER: WO 9: FILING DATE: 12-FEB-1992 CLASSIFICATION: FILING DATE: SOFTWARE: COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS COUNTRY: STATE: FL CITY: Gainesville FILING DATE: 19-AUG-1993 MEDIUM TYPE: Floppy disk ADDRESSEE: APPLICATION NUMBER: US 08/107,755 APPLICATION NUMBER: 32606 E: Gerard H. Bencen 2421 N.W. 41st Street, Suite A-1 USA PatentIn Release #1.0, WO 92/14818 US 07/827, 685 US/08/544, 332 Version #1.

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/657,584

FILING DATE:

30-JAN-1992

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US-09-056-075-1/c.
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                                                                                                                                                                                                    RESULT 13
                                                                                                                                  Sequence 1, Application US/09056075 Patent No. 5955368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches 205; Conservative
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Best Local Similarity 51.2%;
                                                                                                             GENERAL INFORMATION:
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                                          APPLICANT:
APPLICANT:
TITLE OF INVENTION:
                                                                                       APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                   157
                                                                                                                                                                                                                                                                                                                                                                                                           391 ttttataatttagtactaaaaaatacaaatatt----ttttcctattctaagaaaaattc 446
                                                                                                                                                                                                                                                                                                                                                                                                                                                        217 TAATAATATTTAAATTTGAAATATATAAACTTTTAATATTTTCTGGAATATTATTAAAA 158
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Bencen, Gerard H.
REGISTRATION NUMBER: 35,746
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                                                                                                                                                                                                                                                                           TAATATTAATAACATTATCTCTGTTTATTATTATTTTTTT
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                                        Johnson, Eric A.
Bradshaw, Marite
Rood, Julian
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  Species
                     Expression System for Clostridium
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Best Local Similarity 49.3%;
Matches 169; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                              1542 AGTACCAATAAAAACATTAGAACGTCATATTACGTATATGAAAAAAATGGGCTTTTATA 1483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: Seay, Nicholas J.
REGISTRATION NUMBER: 27386
                                          FEATURE:
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LENGTH: 6243 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
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                                                                                                                                                                       273 ttccataatctaaaattttacattttttataacaatttttaaaaattactctttaattt 332
393 ttataatttagtactaaaaaatacaaatattttttcctattct 435
                                                                               333 atagtatttttttatttttagtctaaattataaaattatcttgaattttatttgaattt 392
                                                                                                                                                                                                                                                                                                                                                 153 aaattaaaagttttatctattttttttaatcgaaatccaaccaggcataaatctttgtca 212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: misc_feature LOCATION: 3770..4013
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                                                                                                                                                                                                                                                                                                                                                                                                                                     93 agtacattaaaaagtagaacaaaagttattaatgtaaacattagcgcaatccttaagaaa 152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: plasmid RP4"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/09/056,075
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IBM PC compatible
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Pred. No. 0.0016;
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Patent No. 5389526
                                                                                      Query Match 3.6%;
Best Local Similarity 47.6%;
                                                                                                                                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 5852 base pairs
TYPE: NUCLEIC ACID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release $1.0, Version $1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/867,106
FILING DATE: 19920625
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU PJ 7187
APPLICATION NUMBER: PCT/AU90/00530
FILING DATE: 02-NOV-1989
ATTORNEY/ACENT INFORMATION:
                                                                  Matches 253; Conservative
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LOCATION:
FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Slade, Martin B
APPLICANT: Chang, Andy C M
APPLICANT: Williams, Keith L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
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                                                                                                                                                                                                                                                                                                                              ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5389526ris STREET: One Liberty Place 46th Floor CITY: Philadelphia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Feeney, Joanne Longo REGISTRATION NUMBER: 35,134
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                                                                                                                                                                                               LOCATION:
                                                                                                                                                                                                                     NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                        STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: linear
2 tgaaaaaaatgccactataccagaggaaagagcagtatataaaat-aattaaaattacat 60
                                                                                                                                                                                                                                                           CDS
2378..5038
                                                                                                                                                                                               CDS
2378..5038
                                                                                                                                                                                                                                                                                                                                                DNA (genomic)
                                                                  0; Mismatches 276;
                                                                                      Score 64.4; DB 1
Pred. No. 0.0017;
                                                                                                        DB 1; Length 5852;
                                                                  Indels
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0         0	2365 TGAATRAAATTAAACCAAAACTATTAAATTAAAATTAAAATTAAAATTAAAATTAAAATTAAAA	
Db Db	2067 AGTAATTAATATTATAATGAGGGTTTTTTTTTTTTTTT	
Дy	. 421 attittecetattetaagaaaaatteattittaaaaaaaattgattittatagtataat 480 	
Db Qy	481 ttytttytataattgaattaacttgatttgaaagggaacaaaatgaaaaaaa 	
RES US-	RESULT 15 US-07-991-867B-1/c ; Sequence 1, Application US/07991867B ; Patent No. 5476781 ; GENERAL INFORMATION:	
	APPLICANT: Moyer, Richard W. APPLICANT: Hall, Richard L. APPLICANT: Gruidl, Michael E. TITLE OF INVENTION: No. 5415781el Entomonoxvirus Expression System	
	OF ENGINEES: 66	
	ADDRESSEE: David R. Saliwanchik STREET: 2421 N.W. 41st Street, Suite A-1 CITY: Gainesville	
	STATE: FL COUNTRY: USA 7TD: 22606	
	M PC compatible STEM: PC-DOS/MS-DOS	
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·· ··	APPLICATION NUMBER: WO 92/14018 FILING DATE: 12-FEB-1992	

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/827, 685

30-JAN-1992

PRIOR APPLICATION DATA:

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US-07-991-867B-1
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Best Local Similarity 48.2%;
Matches 206; Conservative
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MOLECULE TYPE: D
ORIGINAL SOURCE:
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NAME/KEY:
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                                                                                                                                                                                                                                                                    | 119 tattaatgtaaacattagcgcaatccttaagaaaaaattaaaagttttatctatttttt 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ELECOMMUNICATION INFORMATION:
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                                   444 ACTTTTTAATACTTTTGAATTACAATATGATAGTCCCGATTGTGGTATGTTTAATATAA 385
                                                                 504 ATTTATACATTGATGTACTATCAGAATATTTAAATGATATTTAAAAATGTAAATTATT 445
                                                                                                                         239 ttatttctactaaaatattatttgaatttgcattttccataatctaaaattttacatttt 298
                                                                                                                                                                           563 TGATATGACTATAAAAGCCATAAA-CACTACAATAGTACTCCTAATACTAATTATGCTT 505
                                                                                                                                                                                               179 taatogaaatocaaccaggcataaatotttgtcagtatttatcaagtcggtattttttca 238
                                                                                                                                                                                                                                              623 TAGTAGTGGTTATATACCAGAACTTATAAAACAAAATAAAAAATATATGTTTATTGAATC 564
359 aattataaaattatottgaattttatttgaatttttataatttagtaotaaaaaatacaa 418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 8457 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Saliwanchik, David R.
REGISTRATION NUMBER: 31,794
REFERENCE/DOCKET NUMBER: UF114.C3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE: 904-375-8100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 19-FEB-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US 07/657,584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  904-372-5800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CDS
3080..6091
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         unknown
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2502..2987
                                                                                                                                                                                                                                                                                                                                                                                                                            complement (6277..6768)
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                                                                                                                                                                                                                                                                                                                   Score 63; DB 1; Length 8457; Pred. No. 0.0031; 0; Mismatches 220; Indels
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밁 324 ATTATTCTATGAGTTTTATTGGTGATTTATTGGCTAGTAGTTATAGAGGTGCATTATTTA 265

Ş 479 atttgtttgtataattgaattaacttgatttgaaagggaacaaaatgaaaaaaatgctta 538

264 TTTCTAGATATGATATTAATAGTATTGACGAATTTAAAAATACATTAGAAATATTTAATA 205

Ş 539 gaaaaaa 545 |||||| 밁

204 TAAAAAA 198

Search completed: November 20, 1999, 00:02:31 Job time: 2518 sec

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GenCore version 4.5
Copyright (c) 1993 - 1998 Compugen Ltd.
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Run Scoring table: Sequence: Perfect score: Title: OM nucleic - nucleic search, using sw model 9: November 19, 1999, 23:06:31; Search time 450.03 Seconds (without alignments) 12182.104 Million cell updates/sec IDENTITY\_NUC 1782 US-08-913-430-1 atgaaaaaaatgccactata.....ttgataatcctgatgcctaa 1782

Searched: 4116993 seqs, 1538246968 residues

Database : Pending Patents NA:\* 15: 16: 17: 18: /cgn2\_6/ptodata/1/pna/US082A\_COMB.seq:\*
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COMB

50: 52: 53: 49: 48: /cgn2\_6/ptodata/2/pna/PCT\_NEW\_COMB.seq:\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

/cgn2\_6/ptodata/2/pna/US60\_NEW\_COMB.seq:\*

## SUMMARIES

Result No.	Score	Query Match	Query Match Length DB		ID	Description
_	1782	100.0	1782	26	US-08-913-430-1	Sequence 1, Appli
2	1245.6	69.9	1260	7	US-08-183-774-2	Sequence 2, Appli
w	97.4	5.5	448	80	US-60-141-136-611	Sequence 611, App
4	95.4	5.4	17034	80	US-60-144-351-1275	Sequence 1275, Ap
5	93.2	5.2	501	80	US-60-141-134-4006	Sequence 4006, Ap
6 0	92.6	5.2	470	22	US-60-145-485-8111	Sequence 8111, Ap
c 7	92.2	5.2	510	80	US-60-144-084-39263	Sequence 39263, A
<b>∞</b>	92	5.2	837	ည	US-08-998-416-288	Sequence 288, App
9	91.8	5.2	25821	88	US-60-161-932-409	Sequence 409, App
c 10	91.6	5.1	1431	77	US-60-126-265-4175	Sequence 4175, Ap

Nov	È	4:57				us-08-913-430-1.mp	13
ი	11	91.4	5.1	720	52	US-09-404-520-12953	Sequence 12953, A
ი	12	91.4	5.1	47573	75	US-60-119-494-1	
c	13	91.4	5.1	961	77		
o	14	90.8	5.1	948	52	404-520-130	13069,
	15	89.8	5.0	1074	81	US-60-146-055-46	
	16	89.4	5.0	507	80	US-60-141-134-1097	1097
ი	17	89.2	5.0	529	77	US-60-128-440-1802	1802,
	18	89	5.0	445	77	US-60-128-440-218	218, 1
	19	89	5.0	497	81	US-60-145-485-5711	5711,
c	20	89	5.0	430	81	US-60-145-485-7216	7216,
	21	89	5.0	345	81	US-60-145-485-9038	9038,
	22	88.4	5.0	433	81	US-60-145-485-8223	8223,
O	23	88.4	5.0	447	81	US-60-145-485-9030	9030,
	24	87.6	4.9	908	77	US-60-126-265-3038	3038,
	25	87.4	4.9	385	77	US-60-128-435-796	796, 1
	26	87.4	4.9	400	80	US-60-141-134-1072	1072
	27	86.8	4.9	1748	80	US-60-144-351-2763	2763,
O	28	86.6	4.9	17034	80	US-60-144-351-1275	1275,
O	29	86.4	4.8	570	08	US-60-141-134-2612	2612,
	30	86.4	4.8	458	80	US-60-141-136-716	716,
	31	86.2	4.8	667	52	US-09-404-520-13658	1365
a	32	85.4	4.8	433	80	US-60-141-134-3384	
•	33	85.4	4.8	509	81	US-60-145-146-991	
	34	85	4.8	636	33	US-08-998-416-1137	1137
	35	84.6	4.7	524	77	US-60-128-440-3372	
c	36	84	4.7	19124	15	US-08-487-826-13	
	37	84	4.7	19124	15	US-08-487-826A-13	13,
	38	84	4.7	19124	15	US-08-487-826B-13	13,
	39	83.8	4.7	805	77	US-60-126-265-127	127,
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	42	83	4.7	378	82	US-60-145-485-6622	6622,
O	43	82.8	4.6	9734	14	US-08-430-908-20	20, A
c	44	82.8	4.6	9741	17	US-08-639-368-43	43,
o	45	82.8	4.6	9741	17	US-08-639-368A-43	43,
		Nov 23  C 11  C 11  C 12  C 13  C 14  C 12  C 22  C 22  C 22  C 22  C 23  C 23  C 33  C 33  C 44  C 44  C 45	0V 231		44444444444444444444444444444444444444	5.1 720 5.1 47573 5.1 948 5.0 1074 5.0 425 5.0 427 5.0 437 5.0 437 6.0 437	5.1 720 52 5.1 47573 75 5.1 948 52 5.0 1074 81 5.0 529 77 5.0 445 77 5.0 447 81 5.0 430 81 5.0 431 81 5.0 431 81 5.0 431 81 6.0 9174 80 6.8 667 52 6.8 667

## ALIGNMENTS

US-08-913-430-1 US-08-913-430-1 ; SOFTWARE: PatentIn V ; SEQ ID NO 1 ; LENGTH: 1782 APPLICANT: Lee, Rogan
APPLICANT: Dougherty, Stephen W.
TITLE OF INVENTION: Antigen Composition Against Mycoplasma
FILE REFERENCE: U-011415-0
CURRENT APPLICATION NUMBER: US/08/913,430B
CURRENT FILING DATE: 1997-12-09
EXALIER APPLICATION NUMBER: PCT/AU96/00149 GENERAL INFORMATION: Sequence 1, Application US/08913430B NUMBER OF SEQ ID NOS: 18 EARLIER FILING DATE: 1995-03-16 EARLIER FILING DATE: 1996-03-15
EARLIER APPLICATION NUMBER: PN 1789 APPLICANT: Walker, John LENGTH: 17
TYPE: DNA ORGANISM: Mycoplasma Ver. hyopneumoniae 2.0 beta

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Nov 23 14:57 us-08-913-430-1.mp

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Matches 1782; Best Local Query Match Similarity Conservative 100.0%; 100.0%; 0 Score 1782; Pred. No. 0; Mismatches ç, DB 26; <u>.</u>. Indels Length 1782; 0; Gaps

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RESULT 2 US-08-183-774-2 ; Sequence 2, Application US/08183774

> 믕 Ş 닭 US-08-183-774-2 Best Loc Matches Query Match TITLE OF INVENTION: Mycoplasma hyopneumoniae, TITLE OF INVENTION: Mycoplasma hyopneumoniae, TITLE OF INVENTION: Recombinant Antigenic Peptides and Diagnost TITLE OF INVENTION: Mycoplasmal Pneumoniae of Swine Using Same GENERAL INFORMATION: INFORMATION FOR SEQ ID NO: FILING DATE: 19-AUG-1991
> ATTORNEY/AGENT INFORMATION:
> NAME: Oblon, Norman F.
> REGISTRATION NUMBER: 24,618 COMPUTER READABLE FORM:
> MEDIUM TYPE: Floppy disk APPLICANT: ORIGINAL SOURCE: MOLECULE TYPE: SEQUENCE CHARACTERISTICS: PRIOR APPLICATION DATA: CURRENT APPLICATION DATA: APPLICANT: APPLICANT: APPLICANT: APPLICANT: TELECOMMUNICATION INFORMATION: 643 STATE: Local Similarity 99.0 hes 1251; Conservative COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, ZIP: 61 STRAIN: ORGANISM: TYPE: nucleic acid STRANDEDNESS: single TELEX: 248855 OPAT UR TELEFAX: APPLICATION NUMBER: CLASSIFICATION: FILING DATE: APPLICATION NUMBER: CITY: Arlington STREET: ADDRESSEE: ADDRESSEE: OBLON, TOPOLOGY: TELEPHONE: REFERENCE/DOCKET NUMBER: LENGTH: atgaaaaaatgcttagaaaaaattcttgtattcatcagctatttatgcaacttcgctt 582 ATGAAAAAATGCTTAGAAAAAATTCTTGTATTCATCAGCTATTTATGCAACTTCGCTT 22202 Virginia 4 1260 base pairs 1755 Jefferson Davis Highway, Fourth Floor (703) 486-2347 TSUNA, Mika MATSUO, Kanako SETO, MITSUSE, Shizuo FUTO, Mycoplasma hyopneumoniae linear P.C. (703) 521-4500 DNA (genomic) Satoshi Yasuhiro 435 69.9%; 99.3%; Mycoplasma hyopneumoniae, DNA Fragments for Primer, Recombinant Antigenic Peptides and Diagnostic Method US 07/747,015 US/08/183,774 4183-001-0 ç, Score 1245.6; DB 7; Pred. No. 9.2e-215; 0; Mismatches 9; Version #1.25 Indels Length 1260; <u>,</u> Gaps 60 <u>,,</u> ef.

gcactaaccgatccggataatcctcgatgaattagtgcccaaaaagatattatttcttat

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GCACTAACCGATCCGGATAATCCTCGATGAATTAGTGCCCCAAAAAGATATTATTTCTTAT

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> S. 23 14:57 us-08-913-430-1.mp

B Ş 밁 ccaaatatttcatttaaatatgataatcaaacatataaagtacaaggtaaaaatattaat 1722 CCAAATATTTCATTTAAATATGATAATCAAACATATAAAGTGCAAGGTAAAAATATTAAT ATTGCAAAGAAAATAAAGCATCTAGATCAGAAGTCGAAAACGAACTAAAAGCAAAACTA 1200 1140

Š 1201 1723 

; OTHER INFORMATION: Clone US-60-141-136-611 US-60-141-136-611 SEQ ID NO 611 LENGTH: 448 GENERAL INFORMATION: Sequence 611, Application US/60141136 NUMBER OF SEQ ID NOS: 4228 CURRENT APPLICATION NUMBER: US/60/141,136
CURRENT FILING DATE: 1999-06-28 APPLICANT: Abad, Mark S.
APPLICANT: LA Rosa, Thomas J.
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(15709)A ORGANISM: Glycine TYPE: DNA FEATURE: max ID: LIB3108-008-Q1-K1-H6

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942 360 882

301 823 241 763 181 703 121

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GTTGATGAAACAGAGGCAGCAACTTCAACAATTACAAAAAACCAGGATGCACAAAATAAC 

TGACTCACTCAGCAAGCTAATTTAAGTCCAGCGCCAAAAGGATTTATTATTGCCCCTGAA

뮹 뫄 믕 믕 뭐 Best Local Similarity
Matches 182; Conserv Query Match 469 259 409 349 139 289 199 229 tattttttcattatttctactaaaatattatttgaatttgcattttccataatctaaaat 79 ttatagtataatttgtttgtataattgaattaacttgatttgaaagggaacaaaatgaaa ttttagtctaaattataaaattatcttgaattttatttgaatttttataatttagtacta 408 tttacatttttttataacaatttttaaaaattactctttaatttatagtatttttttatt 348 Conservative 56.3% Score 97.4; DB 80; Pred. No. 1.7e-08; 0; Mismatches 141; Indels Length \_ = 448; <u>;</u> Gaps 378 528 258 288 0;

RESULT 4 US-60-144-351-1275

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RESULT 5
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Best Local Similarity 46.6%;
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LENGTH: 17034
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APPLICANT: Kovalic, David K.
APPLICANT: Liu, Jingdong
TITLE OF INVENTION: Plant Genome Sequence And Uses Thereof
FILE REFERENCE: 38-21(51237)A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA
                                                                                                                                                                                                  489 ataattgaattaacttgatttgaaagggaacaaaatgaaaaaaatgcttagaaaaaaatt 548
                                                                                                                                                                                                                                                     429 ctattctaagaaaaattcattttttaaaaaaaaattgattttatagtataatttgtttgt 488
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                                                                                                   549 cttgtattcatcagctatttatgcaacttcgcttgcatcaatta 592
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                                                                                                                                                                   Score 95.4; DB 80;
Pred. No. 8.7e-08;
0; Mismatches 268;
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	373 ottgaattttattigaattttataatttagtactaaaaaatacaaatatttttcctat 432 	₽ &
	313 taaaaattactotttaatttatagtattttttttattttttagtotaaattataaaattat 372 	요 ~
	257 tatttgaatttgcattttccataatctaaaattttacatttttttataacaatttt 312 	₽ 2
	197 géataaatetttgteagtatttateaagteggtatttttteattattttetaetaaaatat 256 	₽ 2
	137 ogcaatoottaagaaaaaaattaaaagttttatotatttttttt	B &
	77 agaattittaagaattagtacattaaaaagtagaacaaaagttattaatgtaaacattag 136 	g Q
2;	Query Match 5.2%; Score 93.2; DB 80; Length 501; Best Local Similarity 51.9%; Pred. No. 1e-07; Matches 258; Conservative 0; Mismatches 234; Indels 5; Gaps	
	NUMBER OF THE PROPERTY OF TYPE: IT ORGANIS FEATURE OTHER 1	ξά
d with	: Bewley, De : Deikman, J : Thompson, INVENTION: N INVENTION: P INVENTION: P RENCE: 38-21 P P ILING DATE:	

RESULT 6 US-60-145-485-8111/c ; Sequence 8111, Application US/60145485 ; GENERAL INFORMATION:

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                                                Sequence 39263, Application US/60144084 GENERAL INFORMATION:
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Best Local Similarity 52.5%;
Matches 228; Conservative
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APPLICANT: Abad, Mark S.
APPLICANT: Buehler, Robert E.
APPLICANT: Byrum, Joseph R.
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CURRENT FILING DATE: 1999-07-23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: PLANTS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches 232;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 5.2%;
Best Local Similarity 49.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: NUCLEIC ACID MOLECULES TITLE OF INVENTION: PLANTS FILE REFERENCE: 38-21(15444)B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/60/144,084 CURRENT FILING DATE: 1999-07-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Thompson, Michael D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Heck, Gregory R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Shukla, Hridayabhiramjam
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: La Rosa, Thomas J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Glycine max
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ttatctattttttttaatcgaaatccaaccaggcataaatctttgtcagtatttatcaag
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                           atttttatagtataatttgtttgtataattgaattaacttgattt 509
                                                            aaattttacatttttttataacaatttttaaaaaattactctttaatttatagtattttt 344
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Pred. No. 1.5e-07;
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US-08-998-416-288

Sequence 288, Application US/08998416 GENERAL INFORMATION:

APPLICANT:
APPLICANT:

Pohlmann,

Philippsen, Peter

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; ORGANISM:
US-08-998-416-288
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Best Local Similarity 48.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: PatentIn Release #1.0, CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/998,411
FILING DATE: 24-DEC-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER: PF/5-30306/A/CGC1976
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8587
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: GENOMIC DNA SEQUENCES OF ASHBYA GOSSYPII TITLE OF INVENTION: AND USES THEREOF
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258 atttgaattttgcattttccataatctaaaatttttacatttttttataacaatttttaaaa 317
                                                                              199 ataaatctttgtcagtatttatca-agtcggtattttttcattatttctactaaaatatt 257
                                                        139
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                                                                                                                                     81
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION: 435
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 27709
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: nucleic acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Meigs, J. Timothy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY:
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                                                                                                                                                         caatcottaagaaaaaattaaaagttttatctattttttttaatcgaaatccaaccaggc 198
                                                                                                                                     CTATTATTATCATTATTAATAATTAATTATTTGATTATTAATAATACTTATTATAATTA 140
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Pred. No. 1.8e-07;
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Nov 23 14:57 us-08-913-430-1 mp

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TITLE OF INVENTION: The Drosophila Genome, Primary Nucleic
TITLE OF INVENTION: Acid Sequences, Systems Containin the Nucleic Acid Sequences
TITLE OF INVENTION: and Uses Thereof FILE REFERENCE: CL000122 CURRENT FILING DATE: 1999-10-28 CURRENT APPLICATION NUMBER: US/60/161,932 SOFTWARE: FastSEQ for Windows Version 4.0 NUMBER OF SEQ ID NOS: ORGANISM: Drosophila TYPE: DNA LENGTH: 25821 318 attactctttaatttatagtattttttttttttttattttttagtctaaattataaaaattatcttga 618 acagacagaatcaggttcaacttctgattctaaaccacaagccgagacgctaaaacataa 677 558 498 ttaacttgatttgaaagggaacaaaatgaaaaaatgcttagaaaaaaattcttgtattc 557 438 318 378 201 ATATGAATACTATTTAGTCTATGTTCAAATTTTAAATTAGTTATTAAATATTATTAGAT 618 ACTTAAAAATACTTATAAAAGGAT 641 261 ATTATTATTTCTTTAATAAATTATTAAATAGATTA---TCAATAATTAATATATTATTT 317 163 tittatotattittittatatogaaatocaaccaggcataaatctitgtcagtatitatca 222 283 taaaattttacatttttttataacaatttttaaaaaattactctttaatttatagtatttt 342 223 agtcggtattttttcattatttctactaaaatattatttgaatttgcattttccataatc 282 agtaagtaatgattctattcgaat 701 atcagctatttatgcaacttcgcttgcatcaattattgcatttgttgcagcaggttgtgg 617 gaaaaattcattttttaaaaaaaattgatttttatagtataatttgtttgtataatttgaa 497 attttatttgaatttttataatttagtactaaaaaatacaaatatttttcctattctaa 437 0; Score 91.8; DB 88; Pred. No. 4.2e-07; 0; Mismatches 172; DB 88; Indels Length 25821; υ • Gaps 1;

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CURRENT FILING DATE: 1999-03-25
NUMBER OF SEQ ID NOS: 4221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION: Aspergillus Nidulans Genome Sequence And Uses Thereof FILE REFERENCE: 04983.0117/38-21(15484)A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Cao, Yongwei
APPLICANT: Timberlake, William E.
                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: unsure at all n locations
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                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
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Local Similarity 49.3%;
nes 226; Conservation
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               tgaatttttataatttagtactaaaaaatacaaatattttttcctattctaagaaaaatt 445
                                                                                                                                     ttgcattttccataatctaaaattttacatttttttataacaatttttaaaaattactct 325
                                                                                                                                                                                           tttgtcagtatttatcaagtcggtattttttctattatttctactaaaatattatttgaat 265
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CURRENT TILING DATE: 1999-09-23
NUMBER OF SEQ ID NOS: 44345
SEQ ID NO 12933
LENGTH: 720
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                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Timberlake, William E.

APPLICANT: Yu, Jaehyuk
TITLE OF INVENTION: Emericella nidulans Genome Sequence and Uses Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Cao, Yongwei
APPLICANT: Ghodssi, Azita
APPLICANT: Hinkle, Gregory J.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OTHER INFORMATION: unsure at all n locations
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Aspergillus nidulans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
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                361 ttataaaattatottgaattttatttgaatttttataatttagtactaaaaaatacaaat 420
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Pred. No. 2.3e-07;
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15200 TTATAAAATATATTAATAAATAATAATAAAAAATAAAGAATATGTTATAAGATTAGATAT 15142

508 ttgaaagggaacaaaatgaaaaaaatgcttagaaaaaaattcttgtattcatcagctat 566

15260 ATATAAAATAAATTATATATAAATTCCACAAATGAGATATTTATATACAATAATATATA 1520

450 ttttaaaaaaaattgatttttatagt--ataatttgttttgtataattgaattaacttgat 507

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Best Local Similarity 50.6%;
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TITLE OF INVENTION: RESPONSIBLE FOR CHLOROQUINE IN HUMAN MALARIA
FILE REFERENCE: NIH64.001PR
CURRENT APPLICATION NUMBER: US/60/119,494
CURRENT FILING DATE: 1999-02-10
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ORGANISM: Plasmodium falciparum Dd2
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                              tttttataatttagtactaaaaaatacaaatattttttcctattctaagaaaaattcatt 449
                                                                    TCTTTATTTTCTTTTCATGTTTTATTTTTTATATTTTAATTCAACTTAATTTGTATTTGT 1538;
                                                                                                                                                                       attttccataatctaaaattttacatttttttataacaatttttaaaaattactctttaa 329
                                                                                                                                                                                                              ATATTATATATATATTTTTTTTTTTTTTTTTTATTATTCAATTTTTGAATACCACTTATT 1544:
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Best Local Similarity 51.9%;
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CURRENT FILING DATE: 1999-03-25
NUMBER OF SEQ ID NOS: 4221
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APPLICANT: Timberlake, William E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Aspergillus nidulans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: unsure at all n locations
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
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287
                     481 ttgtttgtat
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                                                                                                                       US-60-146-055-46
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APPLICANT: Ghodssi, Azita
APPLICANT: Hinkle, Gregory J.
APPLICANT: McTninch, James
APPLICANT: Timberlake, William E.
APPLICANT: Yu, Jaehyuk
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                                                                                  Sequence 46, Application US/60146055 GENERAL INFORMATION:
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SEQ ID NO 13069
LENGTH: 948
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         APPLICANT: Bonazzi, Vivien
TITLE OF INVENTION: ISOLATED SECRETED PROTEINS, NUCLEIC ACID
TITLE OF INVENTION: MOLECULES ENCODING SECRETED PROTEINS, AND
FILE REFERENCE: CL000067
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CURRENT APPLICATION NUMBER: US/09/404,520
CURRENT FILING DATE: 1999-09-23
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CURRENT APPLICATION
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Local Similarity 53.0%;
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Pred. No. 3.1e-07
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Search completed: November Job time: 3343 sec

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; ORGANISM: Drosophila
US-60-146-055-46
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LENGTH: 1074
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Best Local Similarity 49.9%;
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                                                                                                                                                                                                                                                                                                                                                                             109 gaacaaaagttattaatgtaaacattagcgcaatccttaagaaaaaattaaaagttttat 168
880 ttatatttatatttatatttatatttatattta 912
                        469 ttatagtataatttgtttgtataattgaattaa 501
                                                    349 ttttagtctaaattataaaattatcttgaattttatttgaatttttataattttagtacta 408
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